

Notice of Allowability

Application No.

10/783,578

Examiner

Sana Al-Hashemi

Applicant(s)

MADAN ET AL.

Art Unit

2164

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to election filed 8/30/06.
2. ☒ The allowed claim(s) is/are 1-32.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____



CHARLES RONES
SUPERVISORY PATENT EXAMINER

DETAILED ACTION

1. This action is issued in response to applicant election/ amendment filed 8/30/06.
2. Claims 1-32 were amended. Claims 33 and 34 were canceled. No Claims were added.
3. Claims 1-32 are allowed.

Election/Restrictions

Applicant's election without traverse of claims 1-32 in the reply filed on 8/30/06 is acknowledged.

Allowable Subject Matter

4. The following is an examiner's statement of reasons for allowance:

Regarding independent claims 1, 15, and 27, the prior art of record fails to disclose or suggest the claimed provision of: In a computing system capable of accessing an instruction tree that represents execution paths for a plurality of XPATH queries, in which each node of the instruction tree represents an instruction, and in which each branch in the instruction tree when executed from the root node to terminating branch node represents an XPATH query, a method for the computing system to evaluate the plurality of XPATH queries using the instruction tree rather than separately evaluating each of the plurality of XPATH queries thereby conserving processing resources, the method comprising the following: an act of sequentially executing instructions in the instruction tree leading from the root node to a main branching node in the

Art Unit: 2164

instruction tree; upon encountering the main branching node in the instruction tree, an act of preserving processing context for the sequential execution up to the main branching node; an act of executing instructions in the instruction tree in a first main branch of the instruction tree leading from the branching node; and upon completing the execution of the first main branch of the instruction tree; an act of using the preserved processing context to execute instructions in the instruction tree in a second main branch of the instruction tree leading from the main branching node, combined with the rest of the limitations in the independent claims, is not taught or suggested, or rendered obvious over the prior art of record or that encountered in searching the invention.

Regarding independent claim 21, the prior art of record fails to disclose or suggest the claimed provision of: In a computing system capable of accessing an instruction tree that represents execution paths for a plurality of XPATH queries, in which each node of the instruction tree represents an instruction, and in which each branch in the instruction tree when executed from the root node to terminating branch node represents an XPATH query, a method for the computing system to evaluate the plurality of XPATH queries using the instruction tree rather than separately evaluating each of the plurality of XPATH queries thereby conserving processing resources, the method comprising the following: an act of sequentially executing instructions in the instruction tree leading from the root node to a main branching node in the instruction tree; and a step for executing the remainder of the instruction tree without redundantly executing the instructions in the instruction tree leading from the root node to a main branching node in the instruction tree, combined with the rest of the limitations in the

Art Unit: 2164

independent claims, is not taught or suggested, or rendered obvious over the prior art of record or that encountered in searching the invention.

Regarding independent claim 24, the prior art of record fails to disclose or suggest the claimed provision of: A computing system comprising the following: system memory; one or more processors capable of accessing system memory and instantiating the following in system memory when executing computer-executable instructions: an instruction tree that represents execution paths for a plurality of XPATH queries, in which each node of the instruction tree represents an instruction, and in which each branch in the instruction tree when executed from the root node to terminating branch node represents an XPATH query; and an inverse query engine configured to receiving an electronic document and evaluate the plurality of XPATH queries against the electronic document using the instruction tree rather than separately evaluating each of the plurality of XPATH queries, combined with the rest of the limitations in the independent claims, is not taught or suggested, or rendered obvious over the prior art of record or that encountered in searching the invention.

5. The dependent claims 2-14, 16-20, 22-23, 25-26, 28-32, being further limiting to the independent claims, definite and enabled by the Specification are also allowed.

Comments

The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. In no case may an applicant reply outside the SIX (6) MONTH statutory period or obtain an extension for more than FIVE (5) MONTHS beyond the date for reply set forth in an Office action. A fully responsive reply must be timely filed to avoid abandonment of this application.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

As allowable subject matter has been indicated, Applicant's response must either comply with all formal requirements or specifically traverse each requirement not complied with. See 37 CRF 1.111(b) and MPEP section 707.07(a).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Points of Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sana Al-Hashemi whose telephone number is (571) 272-4013. The examiner can normally be reached on 8Am-4:30 Pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet Metjahic can be reached on (571) 272-4023. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sana Al-Hashemi
Patent Examiner
Technology Center 2100
September 24, 2006


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